Containers and emplace() Solutions

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emplace()

- What is the difference between insert() and emplace()?
  - When using insert() to add a new object to a container, a temporary object has to be created and copied into the container element
  - When using emplace() to add a new object to a container, the object is created directly in the container element
- What syntax is used for emplace?
  - Instead of passing the temporary object as the second argument, pass the arguments to the object's constructor
- Write a simple program which uses emplace() to add an object to a vector, then prints out the vector elements

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emplace_back()

- What is the difference between push_back() and emplace_back()?
  - Similar to the difference between insert() and emplace()
  - When using push_back() to add a new object to a container, a temporary object has to be created and copied into the container element
  - When using emplace_back() to add a new object to a container, the object is created directly in the container element
- Write a simple program which uses emplace_back() to add an object to a vector, then prints out the vector elements

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